

ABSTRACT

It is the object of this invention to enable the oil extraction from low yield costly wells without using the usual piping installations under conditions that make it possible to obtain a continuous oil flow.

This invention is characterized in that it comprises a proportionally wide endless band which acts as a conveyor belt having a first section extended between a first outer set of holding rolls that guide a cellar top end frame, mounted on the hole of the latter, in order to connect the second and third hanging sections of the respective adjacent rolls which are longitudinally extended in respect with each other, by the inner part of the well with free movement with regard to the lining-wall thereof, one of them being up stream and the other one being down stream, and connected with each other by means of a second set of rolls having a lower end head which tautens them, and which as a diver is deeply submerged in the oil layer, thus providing a counterweight capable of securing the permanent laying of the band along its length, and comprising said second and third sections their respective sectors out of the well hole, of which at least the corresponding up stream section is operatively related with the means capable of causing the detachment of the oil layer adhered to both faces of the band, said means being connected with corresponding collecting means, including said top cellar end frame, where propelling means of the band coupled to at least a motor pulley integrated in said first set of rolls and connected thereto by means of a friction transmission, being both sections of the band extended within the well and operatively related with supplementary guiding and retaining means, which are jointly extended together thereto and suspended independently of said sections from said top cellar end frame.